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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Dae-Ha Lee

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EXAMINER

KANE, CORDELIA P

ART UNIT

PAPER NUMBER

2432

MAIL DATE

DELIVERY MODE

11/06/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/750,516	Applicant(s) LEE ET AL.	
	Examiner CORDELIA KANE	Art Unit 2432	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 September 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed September 17, 2008 have been fully considered but they are not persuasive. Applicant argues that Scheidt fails to teach or suggest using a single key to encrypt both the data and the digital signature. However, Pierce teaches a session key used to encrypt the application data (page 2, paragraph 19). While Scheidt may fail to teach the exact specific key being used to encrypt the signature, Scheidt teaches encrypting the digital signature (column 17, lines 1-11), and Pierce teaches a session key that is used to encrypt the application data (page 2, paragraph 19). Since the digital signature would be part of the application data, in combination with Pierce the digital signature would have been encrypted using the session key.

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
3. Claims 1 – 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pierce in view of Scheidt further in view of Gruber.
4. Referring to claims 1 and 10, Pierce discloses:
 - a. Creating a timestamp that includes an expiration time (page 7, paragraph 76), and a security token (figure 4), and inserting them in the header (page 9, paragraph 89).

Art Unit: 2432

- b. Encrypting data to be transferred with a secret key (page 2, paragraph 19, and inserting it in the body (page 8, paragraph 88).
 - c. Attaching a digital signature to create a signature, and inserting it in the header (page 8, paragraph 86).
 - d. Encrypting the secret key with the service key (page 7, paragraph 77) and inserting it in the header (page 9, paragraph 89). The key is encrypted in the token which is then in the header. Therefore the key is in the header. The service key could be a public key (page 4, paragraph 40).
5. Pierce does not explicitly disclose the digital signature being encrypted in the header, or the header containing routing information. However, Scheidt discloses the header containing the creator's identity, and labels to define the audience of the file (column 4, lines 53-61). Scheidt further discloses the digital signature being encrypted in the message header (column 17, lines 1-11) and that the digital signature is verification of the original signer of the message (column 6, lines 56-59).
6. Pierce and Scheidt are analogous art because they are from the same field of endeavor, securing data that is transferred. At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of Pierce and Scheidt before him or her, to modify Pierce to include the digital signature encryption, and recipient information of Scheidt. The motivation for doing so would have been that so the signatory cannot deny having signed the object (column 6, lines 56-59).
7. Pierce in view of Scheidt does not explicitly disclose a creation time. However, Gruber discloses indicating a start time and end time (page 2, paragraph 11).

Art Unit: 2432

8. Pierce, Scheidt and Gruber are analogous art because they are from the same field of endeavor, securing data. At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of Pierce, Scheidt and Gruber before him or her, to modify Pierce in view of Scheidt to include the creation time and expiration of Gruber. The motivation for doing so would have been to make clear when the approval started.

9. Referring to claim 2, Pierce teaches that the session key is used to both encrypt (page 2, paragraph 19) and decrypt (page 2, paragraph 21) the data . It is inherent that the session key is symmetric.

10. Referring to claim 3, Pierce teaches that the public key encryption done on the secret key is asymmetric (page 4, paragraph 40).

11. Referring to claim 4, since a SOAP message is XML (Pierce, Page 8, Paragraph 83) it is understood that the encryption would be using an XML algorithm.

12. Referring to claims 5 and 11, Pierce teaches:

e. Acquiring a certificate for verifying a signature of the SOAP message (page 8, paragraph 86).

f. Decrypting an encrypted key in the security header (page 7, paragraph 71) with a private key (page 4, paragraph 40).

g. Inserting a digital signature in the header (page 8, paragraph 86).

h. Verifying the signature is not specifically stated, but Pierce does state that the system would be able to check the validity of the signature (page 8, paragraph 86).

Art Unit: 2432

- i. Decrypting the encrypted data in the SOAP body with the secret key (page 2, paragraph 21).

13. Pierce does not explicitly disclose decrypting the digital signature or the header containing routing information. However, Scheidt discloses the header containing the creators identity, and labels to define the audience of the file (column 4, lines 53-61). Scheidt goes on to disclose the digital signature being decrypted (column 17, lines 18-20) and that the digital signature is verification of the original signer of the message (column 6, lines 56-59).

14. Pierce and Scheidt are analogous art because they are from the same field of endeavor, securing data that is transferred. At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of Pierce and Scheidt before him or her, to modify Pierce to include the digital signature decryption, and recipient information of Scheidt. The motivation for doing so would have been that so the signatory cannot deny having signed the object (column 6, lines 56-59).

15. Pierce in view of Scheidt does not explicitly disclose the certificate being in the security token which is in the header. However, Gruber discloses the token being a certificate (page 2, paragraph 21) and that the header contains the token (page 5, claim 19). The token also contains a signature that verifies identification (page 4, paragraph 30).

16. Pierce, Scheidt and Gruber are analogous art because they are from the same field of endeavor, securing data. At the time of the invention, it would have been obvious to one of ordinary skill in the art, having the teachings of Pierce, Scheidt and Gruber

Art Unit: 2432

before him or her, to modify Pierce in view of Scheidt to include token being the certificate that is in the header of Gruber. The motivation for doing so would have been to be able to verify the identification (page 4, paragraph 30).

17. Referring to claim 6, Pierce teaches the passing of the certificate as it is part of the security-concerning information (page 8, paragraph 86). In the specification the applicant defines a security token as security-concerning information.

18. Referring to claim 7, Pierce teaches that the session key is used to both encrypt (page 2, paragraph 19) and decrypt (page 2, paragraph 21) the data . It is inherent that the session key is symmetric.

19. Referring to claim 8, Pierce teaches that the public key encryption done on the secret key is asymmetric (page 4, paragraph 40).

20. Referring to claim 9, since a SOAP message is XML (Pierce, Page 8, Paragraph 83) it is understood that the encryption would be using an XML algorithm.

Conclusion

21. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Art Unit: 2432

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CORDELIA KANE whose telephone number is (571)272-7771. The examiner can normally be reached on Monday - Thursday 8:00 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C. K./
Examiner, Art Unit 2432

/Gilberto Barron Jr/
Supervisory Patent Examiner, Art Unit 2432